

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A system to detect the position of a distal end of an introducer ~~assembly~~ in tissue containing a blood vessel, comprising:
 - (a) an introducer ~~assembly~~ having a distal end and a proximal end and a ~~fluid~~ blood path between the distal end and the proximal end; and
 - (b) a pressure sensor, coupled to the proximal end of the introducer ~~assembly~~, to measure blood pressure and output a waveform indicative of blood pressure at the distal end of the introducer ~~assembly~~.
2. (Original) A system as set forth in claim 1, further comprising:
a display to display said waveform.
3. (Currently Amended) A system as set forth in claim 1 wherein the introducer ~~assembly~~ comprises a core pin with a channel as said ~~fluid~~ blood path.
4. (Currently Amended) A system ~~as set forth in claim 1~~ to detect the position of a distal end of an introducer assembly in tissue containing a blood vessel, comprising:
an introducer assembly having a distal end and a proximal end and a fluid path
between the distal end and the proximal end; and
a pressure sensor, coupled to the proximal end of the introducer assembly, to measure
blood pressure and output a waveform indicative of blood pressure at the distal end of the
introducer assembly;
wherein the introducer assembly comprises:
 - an introducer with a side hole at a distal end of the introducer; and
 - a core pin, insertable into the introducer, with a channel as said fluid path, the channel being in communication with the side hole of the introducer when the core pin is inserted into the introducer.
5. (New) A system as set forth in claim 1, further comprising a core pin inside a lumen of the introducer.

6. (New) A system as set forth in claim 1, further comprising at least one of a seal or anchor inside a lumen of the introducer and deployable therefrom.

7. (New) A system as set forth in claim 1, further comprising a hemostatic valve at the proximal end.